

ABSTRACT

A cam assisted wheel brake for a bicycle comprising two arms mounted on a screw, which provides a pivot point for the arms and a means for attachment of the brake to the fork of the bicycle. It consists of a novel cam lever, which is operated by the bike's existing brake cable and is attached via the cam release to one arm. The arm with the cam lever also has provision for the bike's cable housing adjuster. The brake has a plastic spring, which provides an opposing force to the cable and opens the brake. When the existing lever on the handle bar is pulled, the existing cable is drawn into the housing, which is attached to one arm. The end of the cable being attached to the free end of the cam lever, which pulls the cam lever up toward the cable adjuster. The lobe of the cam lever makes contact with the bearing section of the second arm, causing the arms to move in a way that draws the brake pads toward each other and squeezes the rim of the bicycle. When the lever on the handle bar is released, the plastic spring forces the arms back to the open position. The tab of the quick release may be moved upward to drop the fulcrum of the cam lever. This drops the lobe and allows the brake to open up further.